Clinica Chimica Acta, Vol. 173

Author index

Accominotti, M., Pegon, Y. and Vallon, J.-J.
Determination of zinc in blood serum by electrothermal atomic absorption spectrometry with matrix modification (173) 99

Adolph, K., Kucey, M.T., Hodges, S.D., Carter, R.J. and Snyder, F.F.
Interleukin-2-dependent T lymphocytes for the diagnosis and investigation of inherited metabolic disorders (173) 147

Ameryckx, J., see Dictus-Vermeulen, C. (173) 173

Arai, Y., see Koyama, I. (139) 139

Aroor, A.R., see Nayak, S.S. (173) 157

Beemer, F.A., see Van der Heiden, C. (173) 81

Bonvicini, P., see Burlina, A. (173) 35

Brink, W., see Van der Heiden, C. (173) 81

Burchell, A., Hume, R. and Burchell, B.
A new microtechnique for the analysis of the human hepatic microsomal glucose-6-phosphatase system (173) 183

Burchell, B., see Burchell, A. (173) 183

Burlina, A., Bonvicini, P., Plebani, M. and Zaninotto, M.
Influence of isoenzyme patterns on commutability in enzyme determinations (173) 35

Carter, R.J., see Adolph, K. (173) 147

Ch'ng, S.L. and Marinah, T.A.
In vitro glycation of dried serum (173) 165

Coulombe, R., see Senécal, P.-E. (173) 239

De Klerk, J.B.C., see Van der Heiden, C. (173) 81

Dictus-Vermeulen, C., Ameryckx, J., Gueuning, C., Van Bogaert, E. and Graff, G.L.A.
Alkaline phosphatase isoenzyme pattern in human amniotic fluid is dependent on the level of total activity. Implications in cystic fibrosis diagnosis (173) 173

Douville, P., see Senécal, P.-E. (173) 239

El-Gamal, B.A. and Landon, J.
Comparison of separation techniques in radioimmunoassays for 17-hydroxyprogesterone (173) 201

Fuchs, D., see Reibnegger, G. (173) 233

Fukutake, K., see Kanno, T. (173) 89

Geurtzen, A.F.M., see Van der Heiden, C. (173) 81

Goldstein, L., see Menna-Perper, M. (173) 225

Graff, G.L.A., see Dictus-Vermeulen, C. (173) 173

Gueuning, C., see Dictus-Vermeulen, C. (173) 173

Hamasaki, T., Sakano, T., Kobayashi, M., Sakura, N., Usui, T. and Ueda, K.
Impaired production of leukotrienes by peripheral blood polymorphonuclear leukocytes from children with chronic renal failure (173) 235

Hausen, A., see Reibnegger, G. (173) 233

Hodges, S.D., see Adolph, K. (173) 147

Hume, R., see Burchell, A. (173) 183

Hural, J.A., see Webber, S. (173) 117

Kaiser, E. and Kramar, R.
Clinical biochemistry of peroxisomal disorders (173) 57

Kamath, S.S., see Nayak, S.S. (173) 157

Kanno, T., Sudo, K., Maekawa, M., Nishimura, Y., Ukita, M. and Fukutake, K.
Lactate dehydrogenase M-subunit deficiency: a new type of hereditary exertional myopathy (173) 89

Kobayashi, M., see Hamasaki, T. (173) 235

Komoda, T., see Koyama, I. (139) 139

König, M.-L., see Lehmann, I. (173) 193

Koyama, I., Arai, Y., Miura, M., Matsuzaki, H., Sakagishi, Y. and Komoda, T.
Similarity of the sugar moiety of human alkaline phosphatases between the kidney cortex and duodenum, or medulla and ileum (139) 139

Kramar, R., see Kaiser, E. (173) 57

Kucey, M.T., see Adolph, K. (173) 147
Kundaje, G.N., see Nayak, S.S. (173) 157

Landon, J., see El-Gamal, B.A. (173) 201
Lehmann, C.A., McClure, G.L. and Smolens, I.
Identification of renal calculi by computerized infrared spectroscopy (173) 107
Lehmann, I., Papies, B., Parsi, R.A., Romaniuk, P., Schimke, I., Parsi, E. and König, M.-L.
Enzyme pattern and lipid peroxides in endomyocardial biopsies from patients with cardiomyopathy and myocarditis (173) 193

Maekawa, M., see Kanno, T. (173) 89
Manowitz, P., see Menna-Perper, M. (173) 225
Marinah, T.A., see Ch'ng, S.L. (173) 165
Matsuzaki, H., see Koyama, I. (139) 139
McClure, G.L., see Lehmann, C.A. (173) 107
Menna-Perper, M., Nora, R., Goldstein, L. and Manowitz, P.
Agarose isoelectric focusing of arylsulfatase A producing a permanent record on slab gels (173) 225
Miura, M., see Koyama, I. (139) 139
Moss, D.W.
The place of reference materials in clinical enzymology (173) 1
Muller, J., see Siest, G. (173) 19

Nayak, S.S., Kamath, S.S., Kundaje, G.N. and Aroor, A.R.
Diagnostic significance of estimation of serum apolipoprotein A along with α-fetoprotein in alcoholic cirrhosis and hepatocellular carcinoma patients (173) 157
Nishimura, Y., see Kanno, T. (173) 89
Niwa, T., Takeda, N. and Tatematsu, A.
Accumulation of furancarboxylic acids in uremic serum as inhibitors of drug binding (173) 127
Nora, R., see Menna-Perper, M. (173) 225

Papies, B., see Lehmann, I. (173) 193
Parsi, E., see Lehmann, I. (173) 193
Parsi, R.A., see Lehmann, I. (173) 193
Pegon, Y., see Accominotti, M. (173) 99
Plebani, M., see Burlina, A. (173) 35

Reibnegger, G., Fuchs, D., Hausen, A., Werner, E.R. and Wachter, H.
Pterins as biochemical tests for diagnosis and management of patients with malignant lymphoma and leukemia (173) 233
Romaniuk, P., see Lehmann, I. (173) 193
Roth, M. and Selz, L.
Molecular titration as a means of calibrating enzyme reference materials (173) 27

Sakagishi, Y., see Koyama, I. (139) 139
Sakano, T., see Hamasaki, T. (173) 235
Sakura, N., see Hamasaki, T. (173) 235
Schiele, F., see Siest, G. (173) 19
Schimke, I., see Lehmann, I. (173) 193
Schmidt, E.S. and Schmidt, F.W.
Glutamate dehydrogenase: biochemical and clinical aspects of an interesting enzyme (173) 43
Schmidt, E.S. and Schmidt, F.W.
Standardization by reference methods: a German viewpoint (173) 9
Schmidt, F.W., see Schmidt, E.S. (173) 43
Schmidt, F.W., see Schmidt, E.S. (173) 9
Selz, L., see Roth, M. (173) 27
Senécal, P.-E., Douville, P., Simard, S. and Coulombe, R.
The relationship between serum fructosamine and albumine (173) 239
Siest, G., Schiele, F., Muller, J. and Wellman, M.
γ-Glutamyltransferase reference material: an example of international cooperation (173) 19
Simard, S., see Senécal, P.-E. (173) 239
Smolens, I., see Lehmann, C.A. (173) 107
Snyder, F.F., see Adolph, K. (173) 147
Sørensen, S.
Monoclonal IgMκ with rheumatoid factor activity and cryoprecipitability identified only by immunofixation electrophoresis after 2-mercaptoethanol treatment (173) 217
Sudo, K., see Kanno, T. (173) 89

Takeda, N., see Niwa, T. (173) 127
Tatematsu, A., see Niwa, T. (173) 127

Ueda, K., see Hamasaki, T. (173) 235
Ukita, M., see Kanno, T. (173) 89
Usui, T., see Hamasaki, T. (173) 235

Vallon, J.-J., see Accominotti, M. (173) 99
Van Bogaert, E., see Dictus-Vermeulen, C. (173) 173
Van der Heiden, C., Geurtzen, A.F.M., Brink, W., De Klerk, J.B.C. and Beemer, F.A.
Esterase D: evaluation of a potential derived gene marker for hereditary retinoblastoma (173) 81

Wachter, H., see Reibnegger, G. (173) 233
Webber, S., Hural, J.A. and Whiteley, J.M.
The estimation of dihydropteridine reductase in human blood cells (173) 117
Wellman, M., see Siest, G. (173) 19
Werner, E.R., see Reibnegger, G. (173) 233
Whiteley, J.M., see Webber, S. (173) 117

Zaninotto, M., see Burlina, A. (173) 35

Clinica Chimica Acta, Vol. 173

Subject index

Actalasemia
Peroxisome; Peroxisomopathy; Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease (Kaiser, E. (173) 57)

Active site
Enzyme; Turnover number; Calibration; Standard (Roth, M. (173) 27)

Adrenoleukodystrophy
Peroxisome; Peroxisomopathy; Zellweger syndrome; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Alcoholic cirrhosis
Apolipoprotein A; α-Fetoprotein; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Alkaline phosphatase
Cortex enzyme; Medulla enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

Isoenzyme; Human amniotic fluid; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Antibody-coated tube
Congenital adrenal hyperplasia; Separation techniques compared; 17-OHP level (El-Gamal, B.A. (173) 201)

Apolipoprotein A
α-Fetoprotein; Alcoholic cirrhosis; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Arylsulfatase A
Isoelectric focusing; Discontinuous electrophoresis; Metachromatic leukodystrophy (Menna-Perper, M. (173) 225)

Atypical phenylketonuria
Dihydropteridine reductase; Enzyme assay; Western blot (Webber, S. (173) 117)

Calibration
Enzyme; Active site; Turnover number; Standard (Roth, M. (173) 27)

3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid
Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid
Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid
Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-5-propyl-2-furanpropionic acid
Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid (Niwa, T. (173) 127)

Cardiomyopathy
Enzyme pattern; Lipid peroxide; Endomyocardial biopsy; Myocarditis (Lehmann, I. (173) 193)

Clinical enzymology
Enzyme determination; Standardization; Reference method; Reference material (Schmidt, E.S. (173) 9)

Commutability
Reference method; Enzyme reference material; Predominant isoenzyme (Burlina, A. (173) 35)

Congenital adrenal hyperplasia
Separation techniques compared; 17-OHP level; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Cortex enzyme
Alkaline phosphatase; Medulla enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

Cryoglobulin
Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Cystic fibrosis
Alkaline phosphatase; Isoenzyme; Human amniotic fluid (Dictus-Vermeulen, C. (173) 173)

Development
Glucose-6-phosphatase; Type 1 glycogen storage disease; Glycogenosis (Burchell, A. (173) 183)

Dihydropteridine reductase
Enzyme assay; Western blot; Atypical phenylketonuria (Webber, S. (173) 117)

Discontinuous electrophoresis
Isoelectric focusing; Metachromatic leukodystrophy; Arylsulfatase A (Menna-Perper, M. (173) 225)

Electrophoresis
Cryoglobulin; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Endomyocardial biopsy
Enzyme pattern; Lipid peroxide; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Enzyme
Active site; Turnover number; Calibration; Standard (Roth, M. (173) 27)

Enzyme activity
γ-Glutamyltransferase; Reference material; Standardization (Siest, G. (173) 19)

Enzyme assay
Dihydropteridine reductase; Western blot; Atypical phenylketonuria (Webber, S. (173) 117)

Enzyme determination
Standardization; Reference method; Reference material; Clinical enzymology (Schmidt, E.S. (173) 9)

Enzyme distribution
Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme pattern; Liver disease (Schmidt, E.S. (173) 43)

Enzyme pattern
Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme distribution; Liver disease (Schmidt, E.S. (173) 43)

Lipid peroxide; Endomyocardial biopsy; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Enzyme properties
Glutamate dehydrogenase (EC 1.4.1.3); Enzyme distribution; Enzyme pattern; Liver disease (Schmidt, E.S. (173) 43)

Enzyme reference material
Reference method; Commutability; Predominant isoenzyme (Burlina, A. (173) 35)

Esterase D
Gene marker; Retinoblastoma; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Exertional myoglobinuria
Lactate dehydrogenase; Lactate dehydrogenase M subunit; M subunit deficiency; Myoglobinuria (Kanno, T. (173) 89)

α-Fetoprotein
Apolipoprotein A; Alcoholic cirrhosis; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Fibroblast
Esterase D; Gene marker; Retinoblastoma; Red cells (Van der Heiden, C. (173) 81)

Gene marker
Esterase D; Retinoblastoma; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Glucose-6-phosphatase
Type 1 glycogen storage disease; Development; Glycogenosis (Burchell, A. (173) 183)

Glutamate dehydrogenase (EC 1.4.1.3)
Enzyme properties; Enzyme distribution; Enzyme pattern; Liver disease (Schmidt, E.S. (173) 43)

γ-Glutamyltransferase
Reference material; Standardization; Enzyme activity (Siest, G. (173) 19)

Glycation method, new
In vitro glycation; Serum; Water-resistant medium (Ch'ng, S.L. (173) 165)

Glycogenosis
Glucose-6-phosphatase; Type 1 glycogen storage disease; Development (Burchell, A. (173) 183)

Graphite furnace
Zinc; Micromethod; Serum; Matrix modifier (Accominotti, M. (173) 99)

Hepatocellular carcinoma
Apolipoprotein A; α-Fetoprotein; Alcoholic cirrhosis (Nayak, S.S. (173) 157)

Human amniotic fluid
Alkaline phosphatase; Isoenzyme; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Immunoelectrophoresis
Cryoglobulin; Electrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Inherited metabolic disease
T lymphocytes; Interleukin-2 (Adolph, K. (173) 147)

Inhibitor of drug binding
Uremia; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

Interleukin-2
T lymphocytes; Inherited metabolic disease (Adolph, K. (173) 147)

In vitro glycation
Serum; Water-resistant medium; Glycation method, new (Ch'ng, S.L. (173) 165)

Isoelectric focusing
Discontinuous electrophoresis; Metachromatic leukodystrophy; Arylsulfatase A (Menna-Perper, M. (173) 225)

Isoenzyme
Alkaline phosphatase; Human amniotic fluid; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Lactate dehydrogenase
Lactate dehydrogenase M subunit; M subunit deficiency; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Lactate dehydrogenase M subunit
Lactate dehydrogenase; M subunit deficiency; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Lectin affinity chromatography (Human kidney)
Alkaline phosphatase; Cortex enzyme; Medulla enzyme; Sugar chain heterogeneity (Koyama, I. (139) 139)

Lipid peroxide
Enzyme pattern; Endomyocardial biopsy; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Liver disease
Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme distribution; Enzyme pattern (Schmidt, E.S. (173) 43)

Macroglobulinaemia
Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Matrix modifier
Zinc; Micromethod; Serum; Graphite furnace (Accominotti, M. (173) 99)

Medulla enzyme
Alkaline phosphatase; Cortex enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

Mercaptoethanol
Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Rheumatoid factor (Sørensen, S. (173) 217)

Metachromatic leukodystrophy
Isoelectric focusing; Discontinuous electrophoresis; Arylsulfatase A (Menna-Perper, M. (173) 225)

Micromethod
Zinc; Serum; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)

M subunit deficiency
Lactate dehydrogenase; Lactate dehydrogenase M subunit; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Myocarditis
Enzyme pattern; Lipid peroxide; Endomyocardial biopsy; Cardiomyopathy (Lehmann, I. (173) 193)

Myoglobinuria
Lactate dehydrogenase; Lactate dehydrogenase M subunit; M subunit deficiency; Exertional myoglobinuria (Kanno, T. (173) 89)

17-OHP level
Congenital adrenal hyperplasia; Separation techniques compared; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Peroxisome
Peroxisomopathy; Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Peroxisomopathy
Peroxisome; Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Predominant isoenzyme
Reference method; Enzyme reference material; Commutability (Burlina, A. (173) 35)

Red cells
Esterase D; Gene marker; Retinoblastoma; Fibroblast (Van der Heiden, C. (173) 81)

Reference material
Enzyme determination; Standardization; Reference method; Clinical enzymology (Schmidt, E.S. (173) 9)

γ-Glutamyltransferase; Standardization; Enzyme activity (Siest, G. (173) 19)

Reference method
Enzyme determination; Standardization; Reference material; Clinical enzymology (Schmidt, E.S. (173) 9)

Enzyme reference material; Commutability; Predominant isoenzyme (Burlina, A. (173) 35)

Refsum's disease
Peroxisome; Peroxisomopathy; Zellweger syndrome; Adrenoleukodystrophy; Actalasemia (Kaiser, E. (173) 57)

Retinoblastoma
Esterase D; Gene marker; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Rheumatoid factor
Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol (Sørensen, S. (173) 217)

Separation techniques compared
Congenital adrenal hyperplasia; 17-OHP level; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Serum
Zinc; Micromethod; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)

In vitro glycation; Water-resistant medium; Glycation method, new (Ch'ng, S.L. (173) 165)

Standard
Enzyme; Active site; Turnover number; Calibration (Roth, M. (173) 27)

Standardization
Enzyme determination; Reference method; Reference material; Clinical enzymology (Schmidt, E.S. (173) 9)

γ-Glutamyltransferase; Reference material; Enzyme activity (Siest, G. (173) 19)

Sugar chain heterogeneity
Alkaline phosphatase; Cortex enzyme; Medulla enzyme; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

T lymphocytes
Interleukin-2; Inherited metabolic disease (Adolph, K. (173) 147)

Turnover number
Enzyme; Active site; Calibration; Standard (Roth, M. (173) 27)

Type 1 glycogen storage disease
Glucose-6-phosphatase; Development; Glycogenosis (Burchell, A. (173) 183)

Uremia
Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

Water-resistant medium
In vitro glycation; Serum; Glycation method, new (Ch'ng, S.L. (173) 165)

Western blot
Dihydropteridine reductase; Enzyme assay; Atypical phenylketonuria (Webber, S. (173) 117)

Zellweger syndrome
Peroxisome; Peroxisomopathy; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Zinc
Micromethod; Serum; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)